CMS Simulation (LHE) 13 TeV Fraction of events / 1 GeV 0.2 $pp \rightarrow h \rightarrow 2n_{1} \rightarrow 2n_{D} + 2~\gamma_{D} \rightarrow 2n_{D} + 4\mu$ $m_h = 125 \text{ GeV}, m_{n_1} = 10 \text{ GeV}, m_{n_2} = 1 \text{ GeV}$ 0.18 $m_{\gamma_{D}} = 0.25 \text{ GeV}, c\tau_{\gamma_{D}} = 0.05 \text{ mm}$ 1st muon (leading p_T) 2nd muon 0.16 3rd muon 4th muon 0.14 0.12 0.1 0.08 0.06 0.04 0.02 120 20 40 60 80 100 of μ [GeV]